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June 10, 2005

Top Trends in the Data Center?

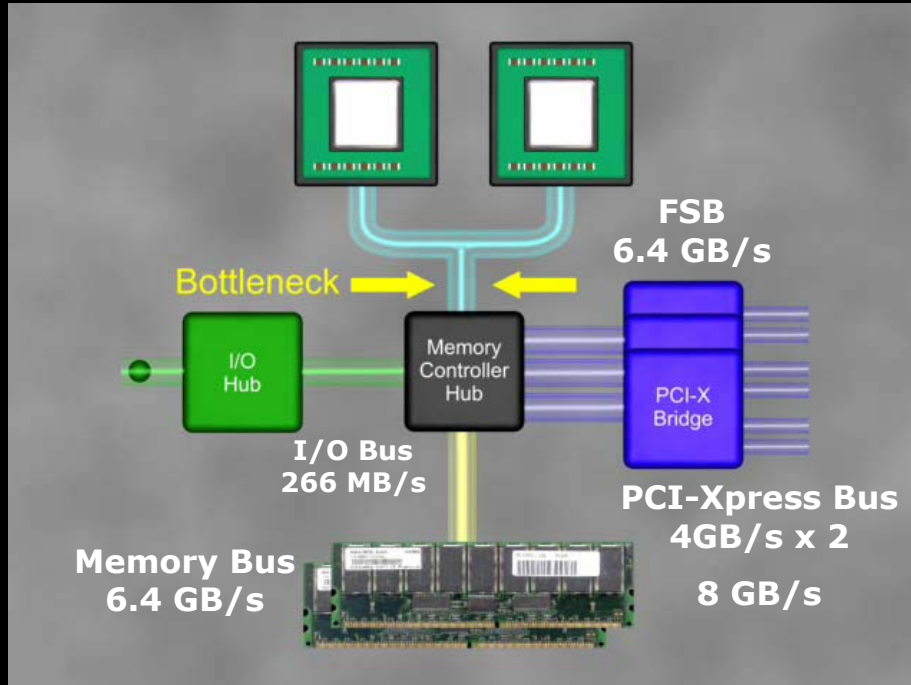


- Best use of Data Center resources
 - Power
 - Floor Space
 - Servers
 - Software licenses
 - People
- Minimum hardware and software disruption when upgrading, scaling and integrating
- Leading-Edge performance for key workloads



System Architecture circa 1999

Applied to Today's needs



Front Side Bus Architecture

Demands:

Memory bandwidth	- 10.7 GB/s
I/O	- 8.0 GB/s
2 nd Processor	- 6.4 GB/s

Peak 2P Bandwidth req. 24.7 GB/s

Available FSB bandwidth: 6.4 GB/s

- Can partially compensate with larger caches and higher speed, more expensive memory, or dual FSB
- Does not scale with CPU performance
- Can't scale to effectively meet today's workloads

The FSB is the system bottleneck

Based on a simple principle:

'The shortest route between two points is a Direct Path'

AMD64 and the
Direct Connect Architecture

Architecture for the way you compute *Today and Tomorrow*



AMD64

- 64-bit and 32-bit by design
- Direct Connect Architecture
 - Direct to Memory
 - Direct to I/O
 - Direct to Other CPUs

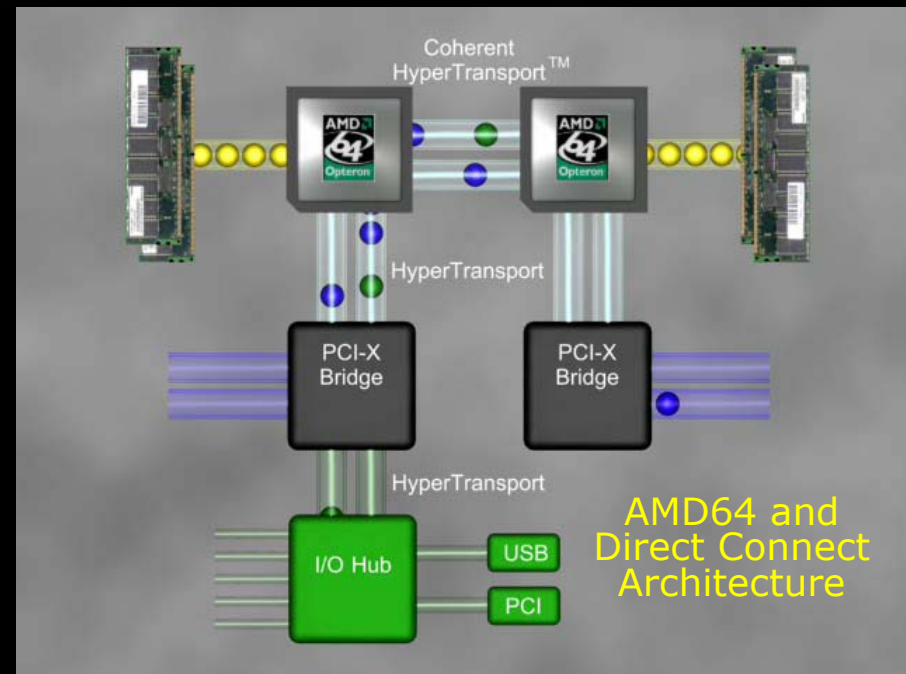
Competing Approach

Bottleneck

Balanced for maximum Bandwidth & minimum

res Bandwidth Scalability - GB/s

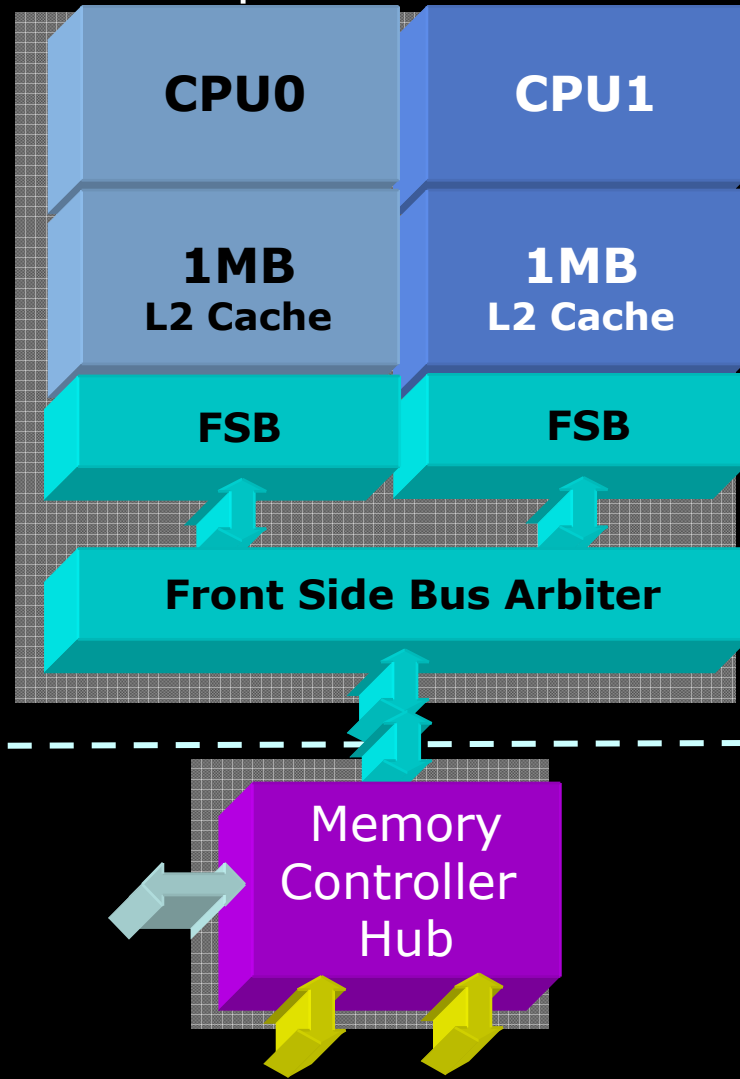
		1P	2P	4P
CPU to/from Memory	AMD64	6.4	12.8	25.6
	Competition	6.4	6.4	10.7
CPU to CPU	AMD64	n/a	8	32
	Competition	n/a	6.4	10.7
I/O	AMD64	24	32	32
	Competition	6	12	14



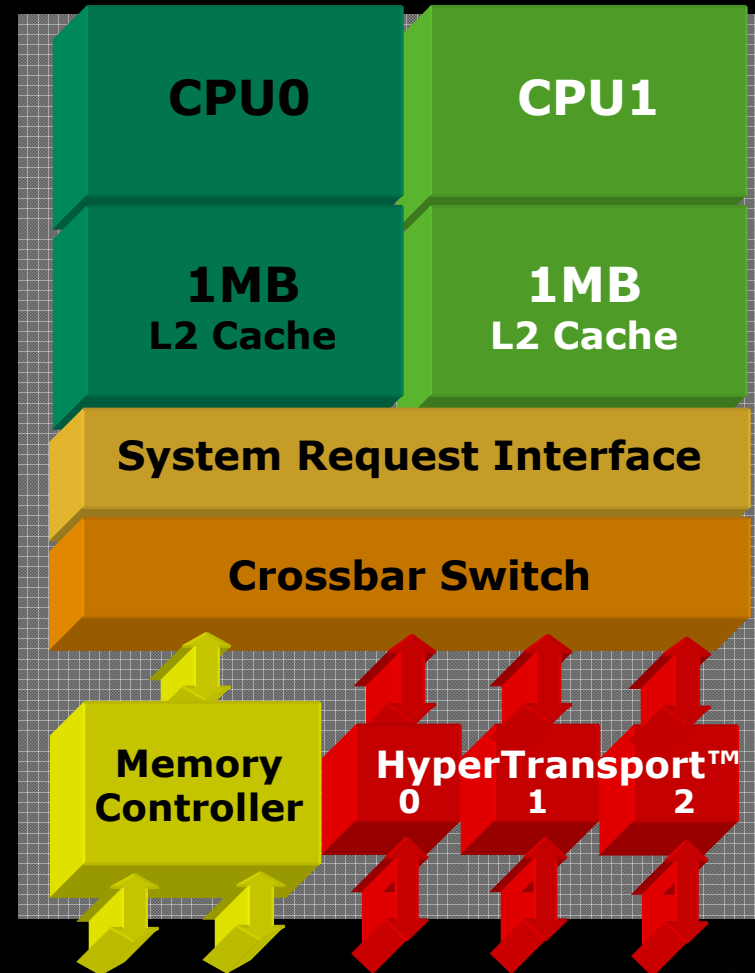
AMD64 is Dual Core by Design



Competing Approach: Multiple CPUs on a die



Multi-core Architecture



Dual Core by Design

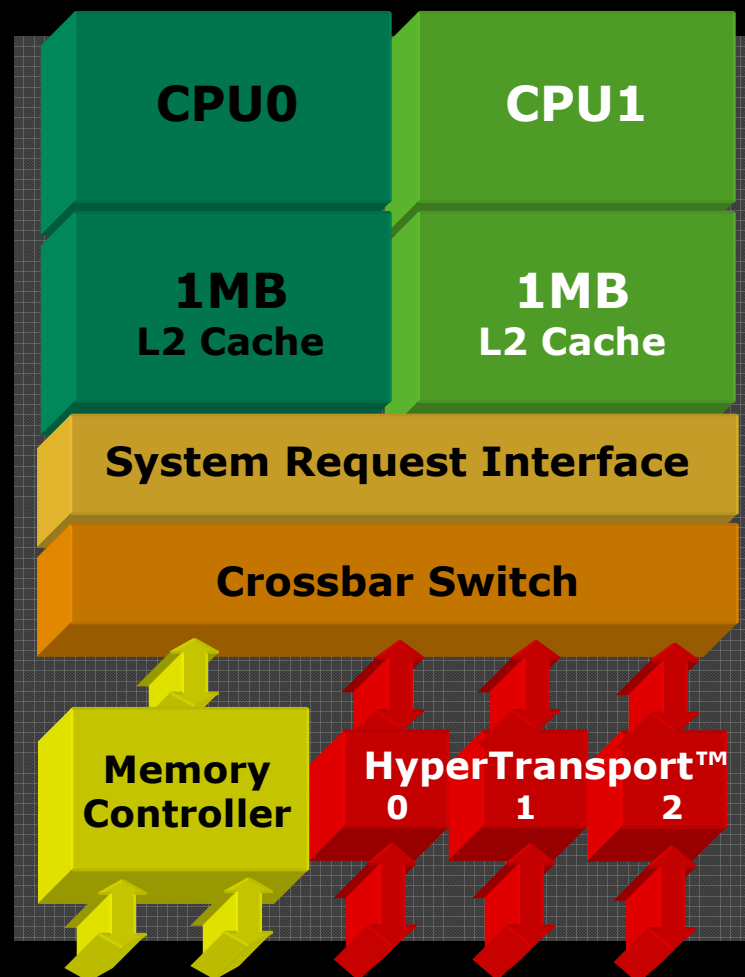


AMD64 Designed for Dual Core

Socket Compatible with current 940 or 939 solutions

No Changes in Power

Non-disruptive migration



2005 Analyst Day

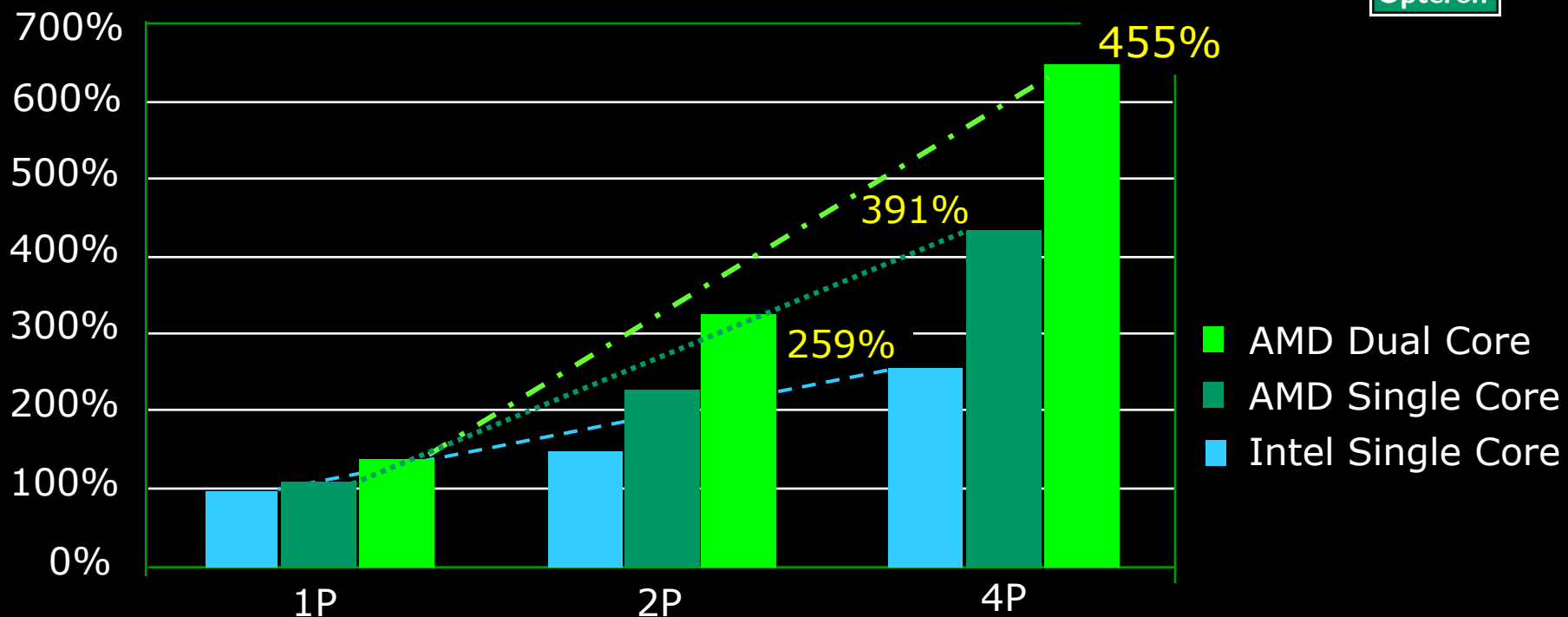


Bandwidth Scalability Example

Memory and CPU to CPU



SPECfp_rate_2000



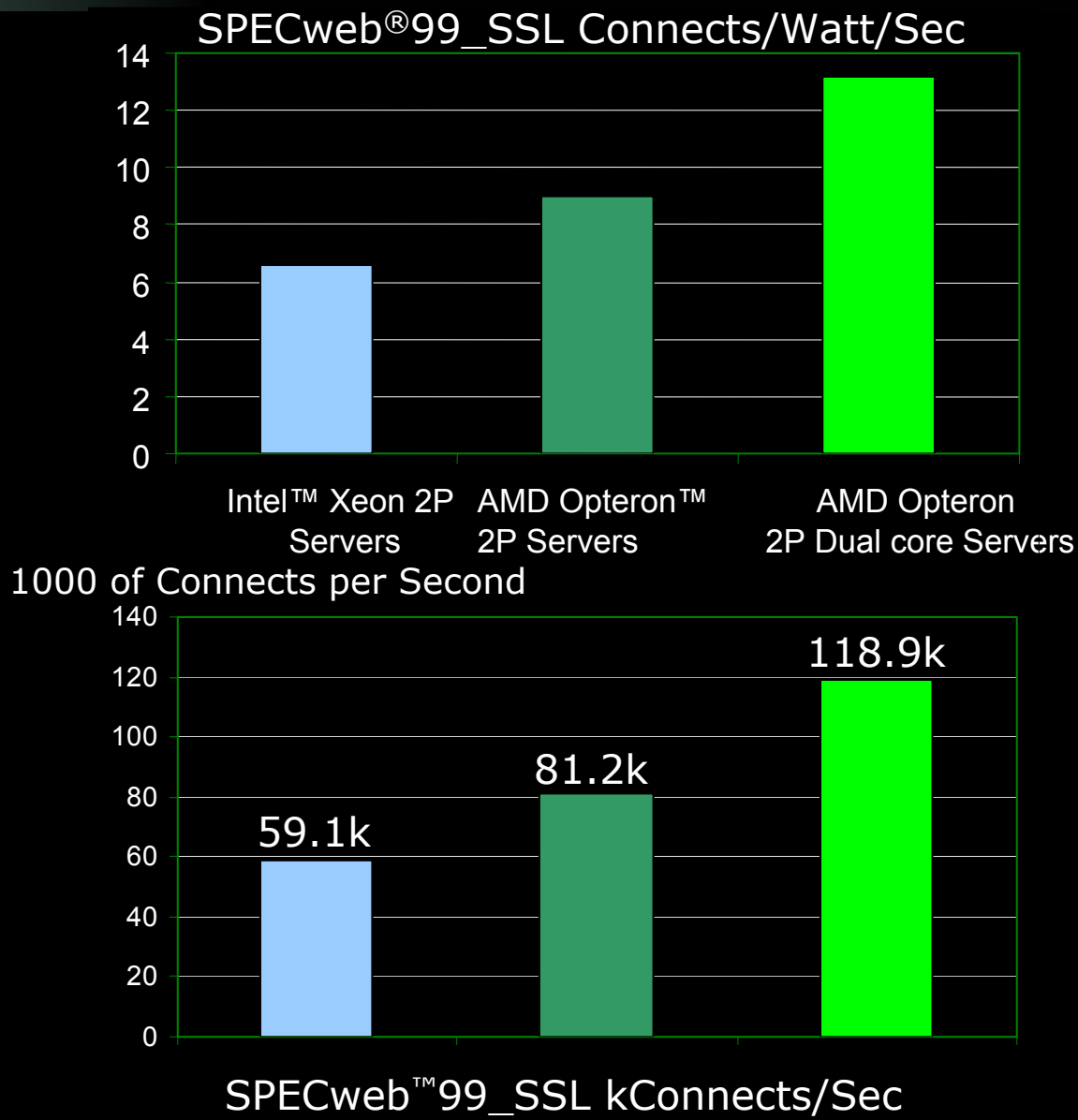
Source: www.spec.org; June 2, 2005; max peak score for each of 1-4P regardless of anything else

Performance/Watt

SPECweb® 99_SSL Secure Web Connections Example



- Data Center rack space and power budgets are often fixed
- Performance/Watt focus maximizes use of those resources
- Typical 48U Rack has 9KVA of Power



Server/WS

CPU & Platform Solutions Roadmap



2005

2006

2007

CPUs



**Dual Core
AMD PowerNow!™
Technology**

**Dual Core
"Pacifica" Virtualization
"Presidio" Security
Memory RAS**

**Multi-Core
Scale-up (32P+)
L3 Cache
Enhanced RAS
I/O Virtualization
xGHz HT**

Chipset &
Platform



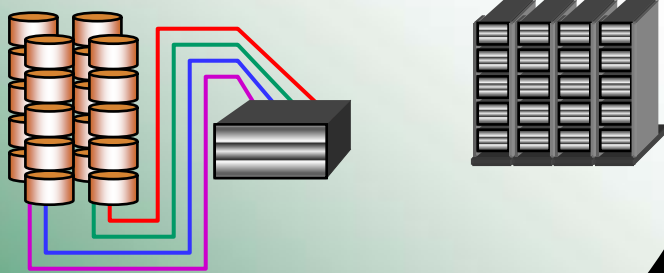
**PCI Express
Gigabit Ethernet
Serial ATA II
Software RAID 5
Hardware Firewall**

**PCI Express
Gigabit Ethernet
TCP Offload
Serial SCSI
Serial ATA II
Hardware RAID 5**

**xGHz HT
PCI Express 2
Gigabit Ethernet
TCP Offload
Serial SCSI
Serial ATA II
Hardware RAID 5
Fault Tolerant I/O**



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Data Center

- Servers
- Storage



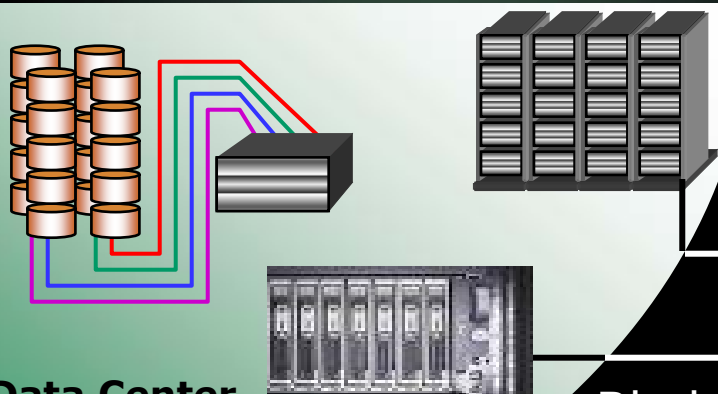
Transactional

- Transactional Purchases
- Lowest Acquisition Price is Key



Stable Desktop

- Stable Image Platform
- Improved Life Cycle Costs



***Leverage the AMD64
Price/Performance/Watt Advantage***



Data Center

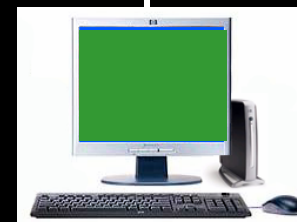
- Servers w/ Virtualization
- Storage
- Blade PCs

Blade PCs



Blade PC and Thin Client

- Further improvement in Life Cycle costs
- More Manageability and Security
- Leverage AMD's performance/watt advantage
- "PC" Experience is maintained



Server Based Computing

- Lowest Life Cycle costs
- Most Manageable and Secure
- "Terminal" Experience at the desktop



Managed Desktop

- Stable Image Platform
- Add Hardware Manageability











Transactional



Stable Platform








Commercial Workstation & Desktop CPU & Platform Solutions Roadmap



	2005	2006	2007
CPUs	Dual Core Complete 64-bit offering	"Pacifica" Virtualization "Presidio" Security DDR2, Lower Power	New Core Larger Caches DDR3 xGHz HT
Performance (WS/Desktop)   	SLI Graphics RAID HD Audio GbE + WLAN	DDR2 "Aero Glass" graphics "Pacifica" Virtualization "Presidio" Security TPM	DDR3 xGHz HT PCIe Gen II
Mainstream Stable Platform  	UMA + PCIe Option	CSIP Managed Platform	
Blade PCs, Thin Clients   	UMA, sub-30W Low Noise Cooling Custom FF	Sub-10W DDR2 "Pacifica" Virtualization "Presidio" Security, TPM	DDR3 xGHz HT











Consumer Desktop Platform Solutions Roadmap



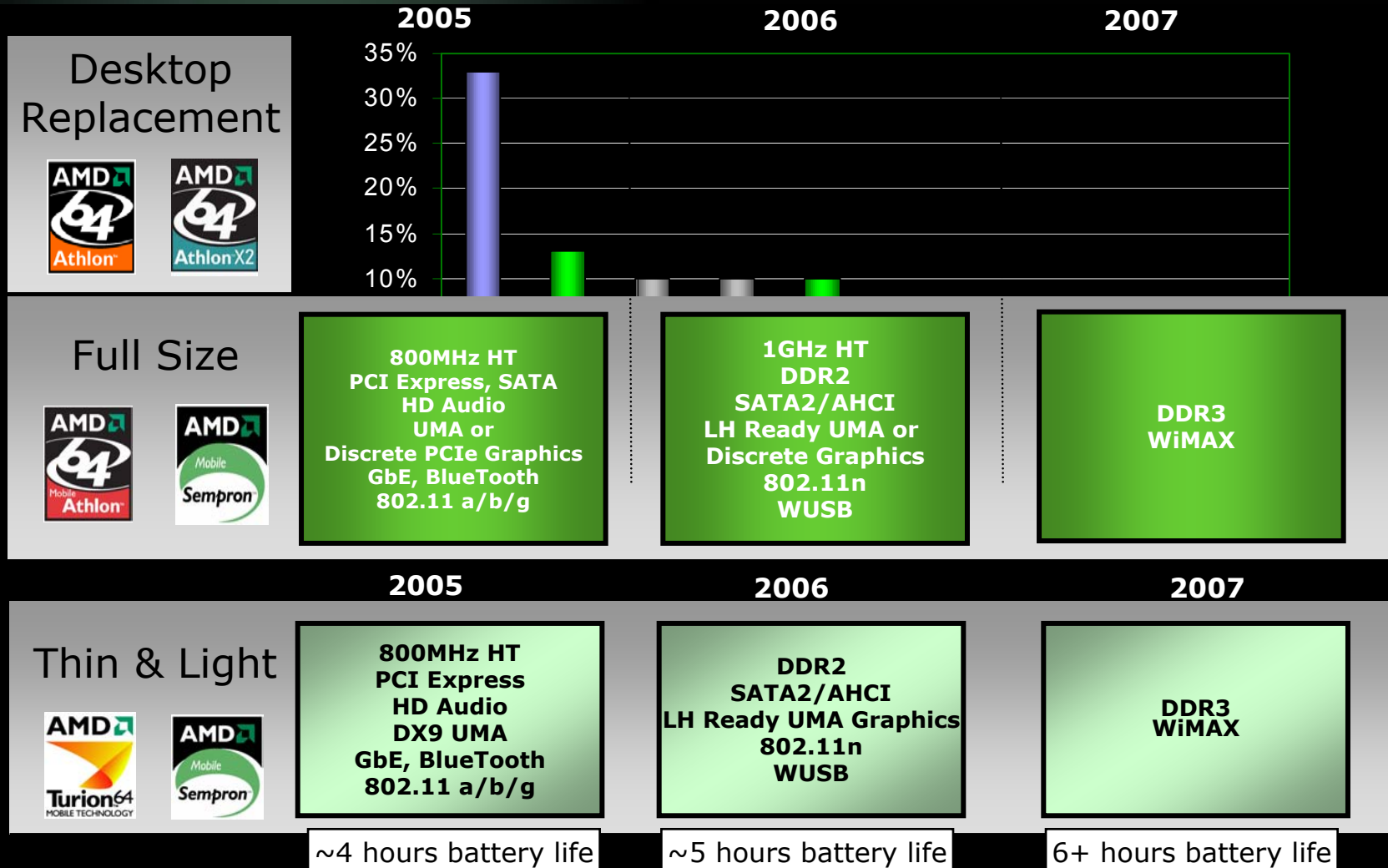
	2005	2006	2007
Extreme Performance	SLI Graphics RAID GbE + WLAN HD Audio		
Digital Life - Content Creation   	UMA + PCIe Option GbE + WLAN HD Audio	DDR2 “Aero Glass” graphics “Pacifica” Virtualization “Presidio” Security TPM	DDR3 xGHz HT PCIe Gen II
Digital Life - Entertainment  	UMA or PCIe Down Fanless/Low noise		
Work at Home and Homework 	Fast Ethernet + WLAN UMA + PCIe Option		
Value Computing 	UMA graphics Fast Ethernet	DDR to DDR2 “Aero Express” graphics “Pacifica”, “Presidio”, TPM	xGHz HT Enhanced UMA

Mobile CPU & Chipset Roadmap



	2005	2006	2007
  	<p>25W/35W/62W TDP</p> <p>64-bit Mobility</p>	<p>Dual Core DDR2</p> <p>35W/62W TDP</p> <p>"Pacifica" Virtualization "Presidio" Security</p>	<p>New Core DDR3</p> <p>≤35W TDP ~60W TDP</p> <p>Larger/Shared caches</p>
      	<p>PCI Express DX9 UMA High Def Audio SATA Integrated LAN (10/100/GbE) 802.11 a/b/g</p>	<p>LH Ready UMA SATA2/AHCI Integrated WLAN (802.11 a/b/g) 802.11n</p>	<p>Next-Generation Graphics</p> <p>WiMax</p>

Mobile Platform Solutions Roadmap



- Focusing on customers needs guides you to the right choices
- AMD64 and Direct Connect Architecture provide the right foundation for Today's and Tomorrow's computing needs
- Expect continued performance leadership in clients and servers

Cautionary Statement



These presentations contain forward-looking statements, which are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Investors are cautioned that forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from current expectations. Forward-looking statements in these presentations relate to, among other things, the company's anticipated product and technology introduction schedules; and the company's plans for tooling and financing its planned wafer fabrications facility AMD Fab 36. Risks include the possibility that global business and economic conditions will worsen in 2005 resulting in lower than currently expected sales; that Intel Corporation's pricing, marketing programs, product bundling, new product introductions or other activities targeting the company's processor business will prevent attainment of the company's current sales plans; that demand for personal computers and other processor-based products and, in turn, demand for the company's processors will be lower than currently expected; that adoption of AMD64 products by OEMs will not occur as expected; that the company will not be able to meet demand for its products; that the company may not achieve its current product and technology introduction schedules; that technology partners will discontinue collaborating with the company; that the company will not be able to raise sufficient capital to enable it to establish leading-edge capacity to maintain its market leadership positions; that the company may not be able to penetrate further into emerging markets; and that solutions providers will not timely provide the infrastructure, including operating systems and applications, to support the company's AMD64 technology.

Because the company's actual results may differ materially from its plans and expectations today, we encourage you to review the company's filings with the Securities and Exchange Commission, including but not limited to our Annual Report on Form 10-K for the year ended December 26, 2004, and our Quarterly Report on Form 10-Q for the quarter ended March 27, 2005.



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